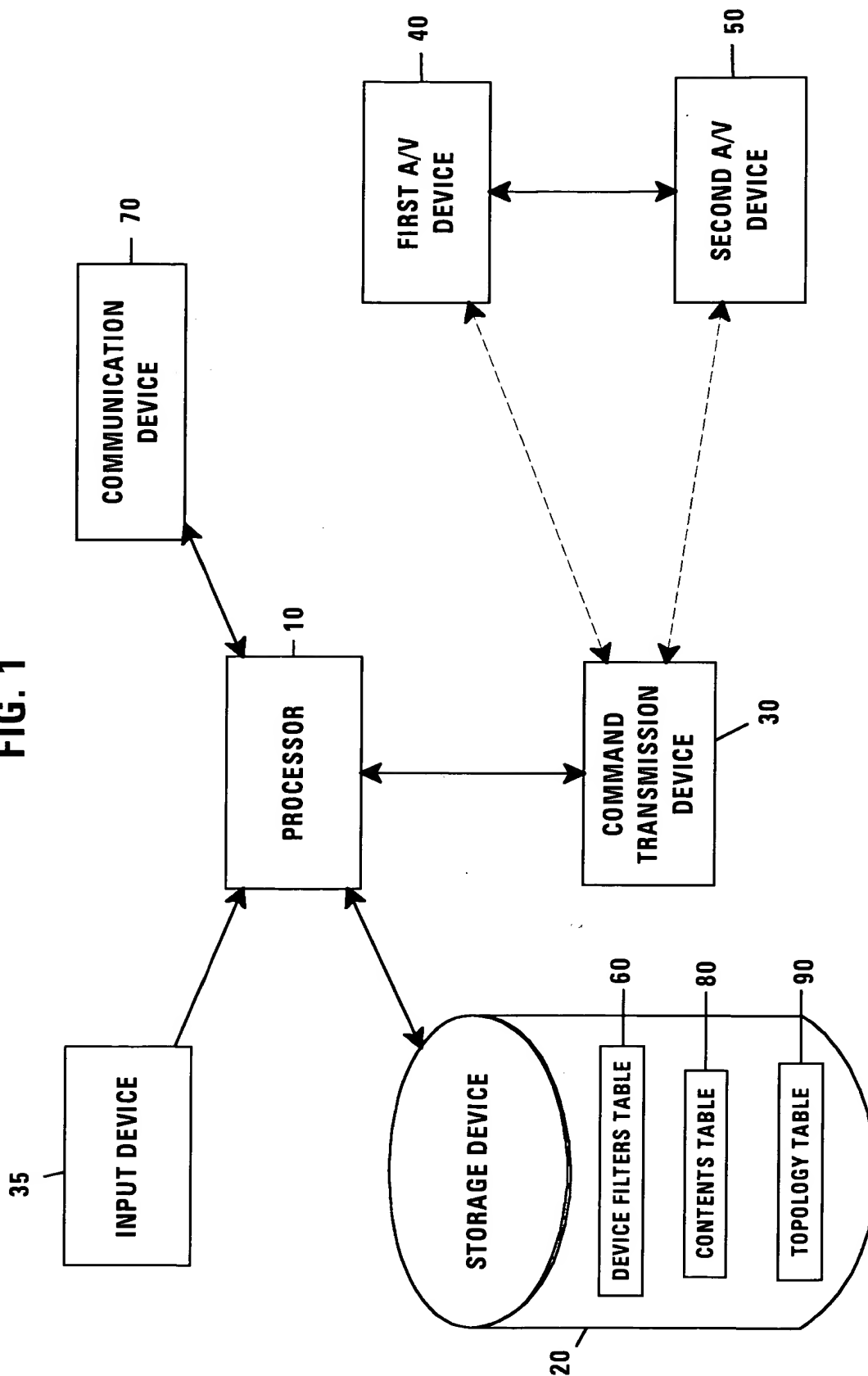


FIG. 1



DEVICE FILTERS TABLE

| NAME | PINS | LOCATION |
|-------------|-------------------|-------------|
| Set_top_box | VideoOut | Living Room |
| VCR | VideoIn, VideoOut | Living Room |
| • | | |
| • | | |
| • | | |
| TV_1 | VideoIn, AuxIn | Living Room |

FIG. 2A

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PINS TABLE

| PIN IDENTIFIER | MEDIA TYPE | SUPPORTED FUNCTIONS (ACTIVITY VERBS) |
|----------------------|------------|--------------------------------------|
| Set_top_box.VideoOut | Video | Watch |
| VCR.VideoIn | Video | Record |
| VCR.VideoOut | Video | Play |
| • | | |
| • | | |
| • | | |
| TV_1.VideoIn | Video | Watch |
| TV_1.AuxIn | Video | Watch |

FIG. 2B

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FIG. 5

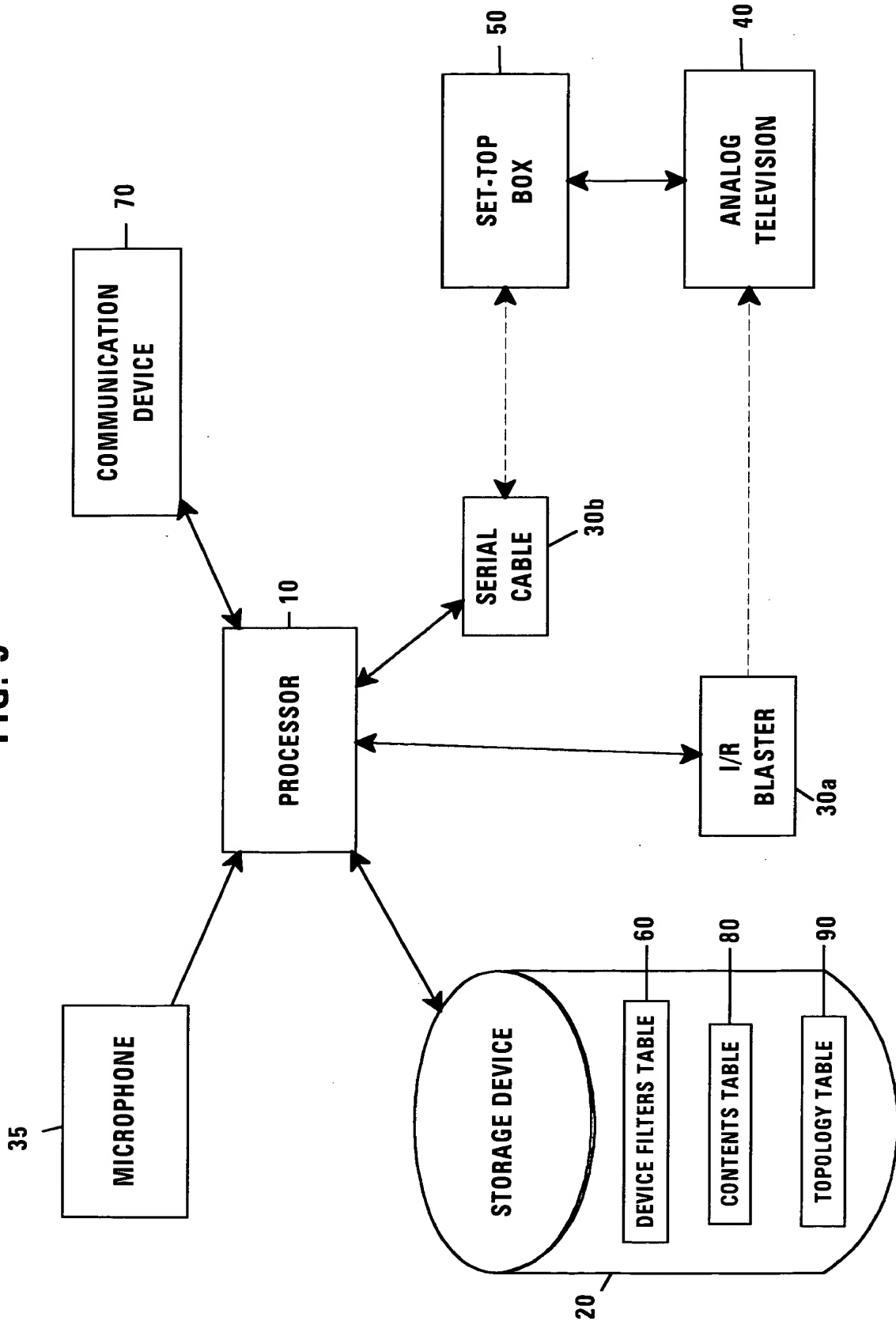


FIG. 6

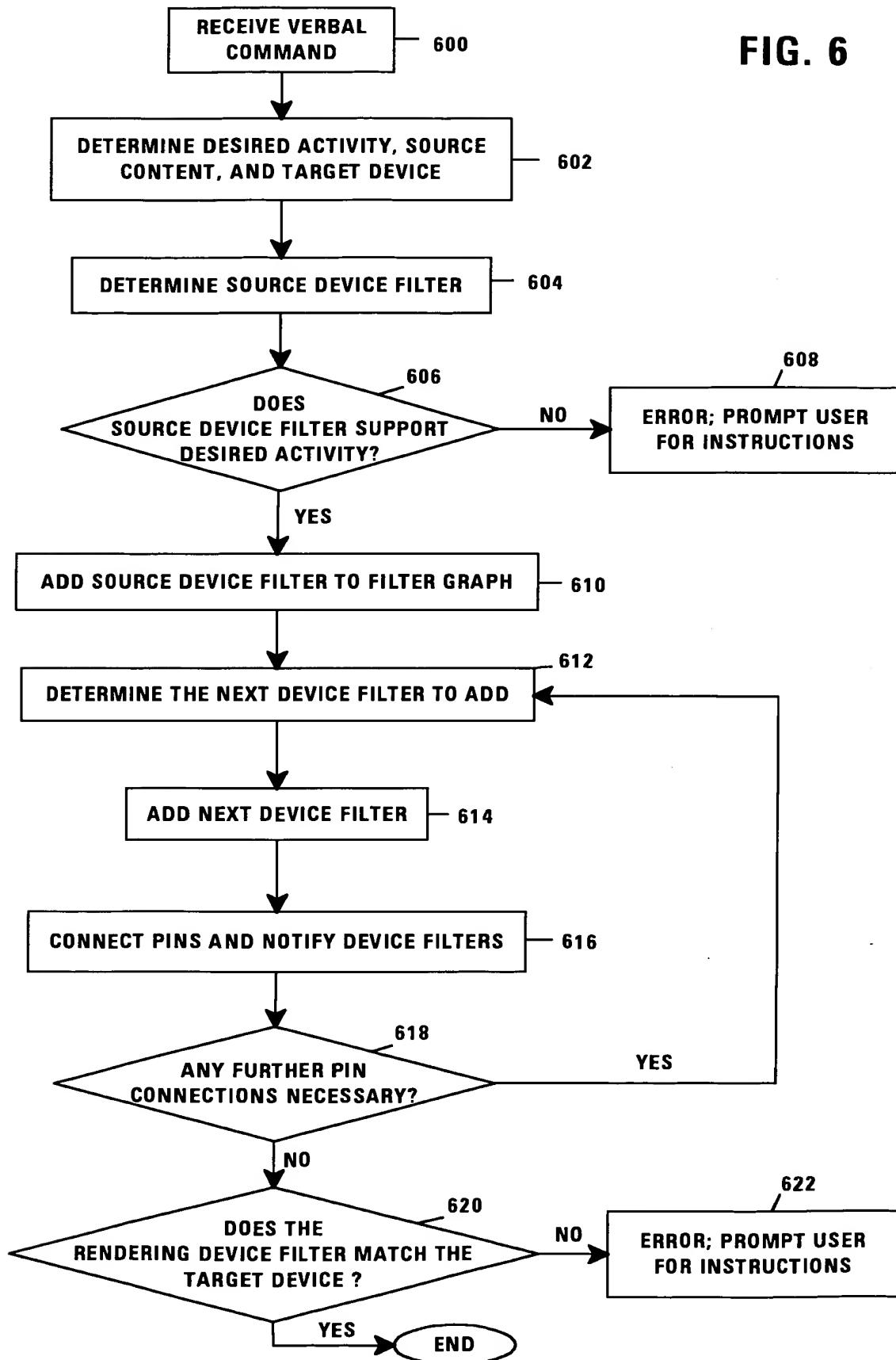
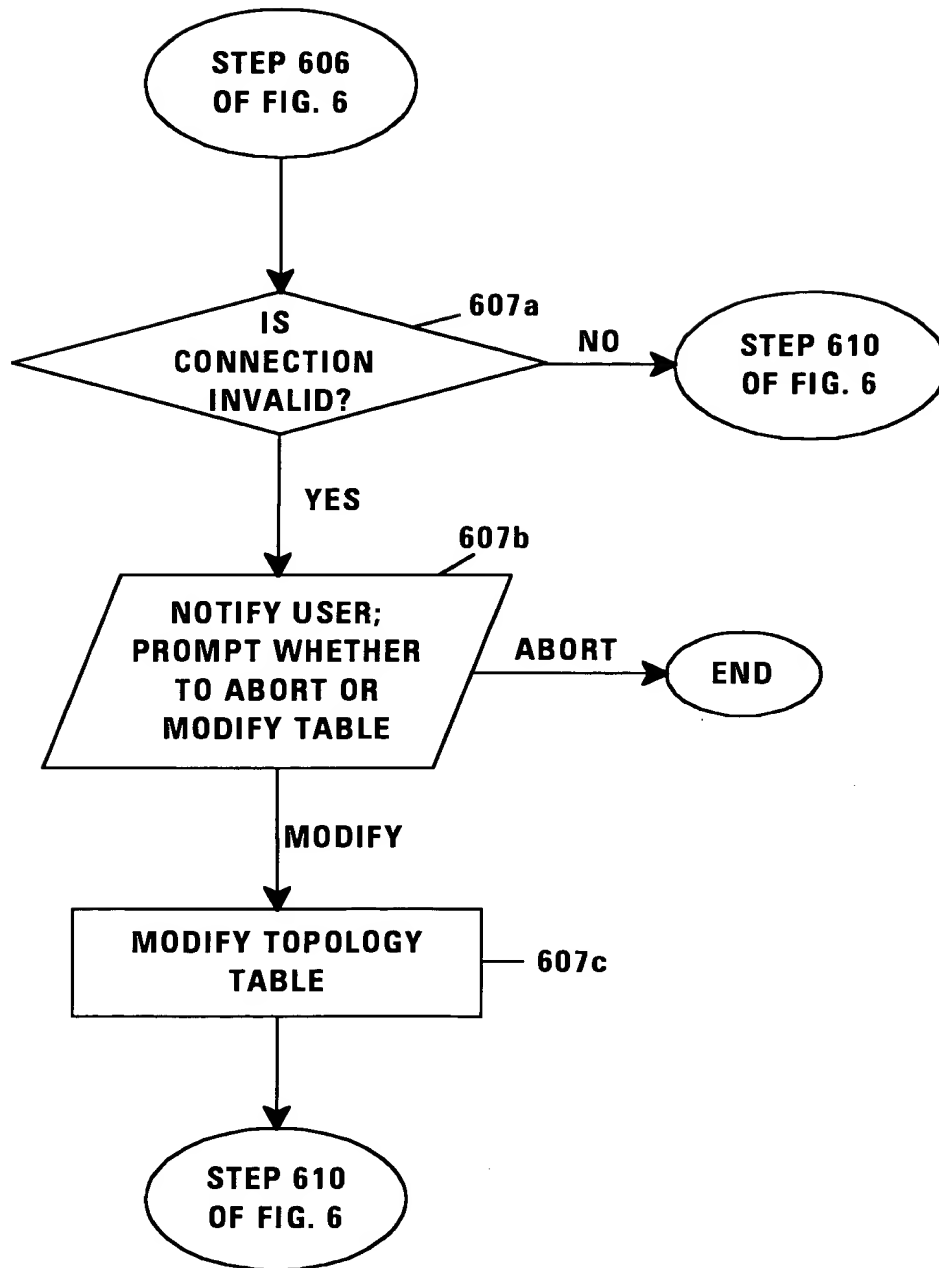


FIG. 7



ALTERNATE DEVICE FILTERS TABLE

| NAME | PINS | LOCATION |
|-------------|------------|-------------|
| Set_top_box | PIN1 | Living Room |
| VCR | PIN2, PIN3 | Living Room |
| • • • | | |
| TV_1 | PIN4, PIN5 | Living Room |

FIG. 8

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ALTERNATE PINS TABLE

| PIN ID | PIN IDENTIFIER | MEDIA TYPE | MEDIUM | SUPPORTED FUNCTIONS (ACTIVITY VERBS) | FLOW TYPE |
|-------------|----------------------|------------|--------|--------------------------------------|-----------|
| PIN1 | Set_top_box.VideoOut | Video | M1 | Watch | Output |
| PIN2 | VCR.VideoIn | Video | M3 | Record | Input |
| PIN3 | VCR.VideoOut | Video | M2 | Play | Output |
| • • • | | | | | |
| PIN4 | TV_1.VideoIn | Video | M1 | Watch | Input |
| PIN5 | TV_1.AuxIn | Video | M2 | Watch | Output |

FIG. 9

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